

Message Text

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EXCON

EO 11652: XGDS-1
TAGS: ESTC, COCOM, US, NL
SUBJ: OSCILLOSCOPES: US/NETHERLANDS PROPOSALS FOR
ADMINISTRATIVE EXCEPTION NOTE - IL 1584

REFS: A. COCOM DOCS(73)DEF 1584/1 AND /2
B. OECD PARIS 28938

DEL MAY OFFER THE FOLLOWING RESPONSES TO THE QUESTIONS
RAISED DURING THE DISCUSSION OF NOVEMBER 6 CONCERNING THE
MEANING OF THE US PROPOSAL:

1. IT MAY BE DIFFICULT AT THIS POINT TO INTRODUCE OBSCURE
TECHNICAL FACTS INTO THE DISCUSSION, BUT IT IS APPARENT
THAT ALL PARTIES TO THE NEGOTIATIONS MAY NOT UNDERSTAND
OSCILLOSCOPE MAINFRAME BANDWIDTH RATINGS. MAINFRAMES
ACTUALLY HAVE TWO BANDWIDTHS. ONE IS THE RATED BANDWIDTH
SHOWN IN THE TECHNICAL DESCRIPTION. BY LONGSTANDING CUSTOM
IN THE TRADE THE RATED BANDWIDTH IS THE WIDEST SYSTEM BAND-
WIDTH AVAILABLE WHEN THE MAINFRAME IS USED WITH THE
WIDEST BANDWIDTH NON-SAMPLING PLUG-IN AVAILABLE. THE OTHER
BANDWIDTH IS THE ACTUAL BANDWIDTH OF THE MAINFRAME AND MUST
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IN EVERY CASE BE IN EXCESS OF THE SYSTEM BANDWIDTH. THE

REASON FOR USING THE ARTIFICIALLY DEFLATED RATED BANDWIDTH IS OBVIOUS. IT WOULD LOOK ODD IF A MAINFRAME WERE ADVERTISED AS HAVING A CERTAIN BANDWIDTH IF IT WERE IMPOSSIBLE TO OBTAIN THIS BANDWIDTH WITH ANY AVAILABLE PLUG-IN. THE ACTUAL BANDWIDTH IS ALMOST NEVER SHOWN, ALTHOUGH FOR TECHNICAL REASONS IT MUST BE GREATER THAN THE RATED BANDWIDTH. WE ARE AWARE OF ONLY ONE NON-US OSCILLOSCOPE WHICH SHOWS THE ACTUAL BANDWIDTH. THE PHILIPS PM3370 IS ADVERTISED AS A 150 MHZ MAINFRAME, ALTHOUGH THE DETAILED TECHNICAL DESCRIPTION SHOWS THAT THE ACTUAL BANDWIDTH IS 210 MHZ. THUS THE QUESTION OF WHETHER THE MAINFRAME CAN EXCEED 100 MHZ UNDER THE US PROPOSAL IS MOOT; THE MAINFRAME MUST EXCEED 100 MHZ IN A 100 MHZ SYSTEM ALTHOUGH IT MAY OR MAY NOT BE RATED FOR ABOVE 100 MHZ. THEREFORE, WE CAN CONFIRM THAT EITHER THE MAINFRAME OR THE PLUG-INS OR BOTH CAN EXCEED 100 MHZ AS LONG AS THE SYSTEM DOES NOT EXCEED 100 MHZ.

2. WE AGREE WITH THE UK INTERPRETATION OF THE US LANGUAGE OMITTED FROM THE NETHERLANDS PROPOSAL: THE COMBINATION OF ELEMENTS MUST BE REASONABLE. WE DO NOT NECESSARILY AGREE WITH THEIR EXAMPLE SINCE A 150 MHZ MAINFRAME, 100 MHZ PLUG-IN, 100 MHZ SYSTEM MIGHT QUALIFY IF NO OTHER COMBINATION OF ELEMENTS PROVIDED THE OVERALL SYSTEM PERFORMANCE. THE WORD "OVERALL" WAS DELIBERATELY CHOSEN TO BROADEN THE CONCEPT OF SYSTEM PERFORMANCE BEYOND BANDWIDTH ALONE. FOR EXAMPLE, THE R7704 IS A 175 MHZ MAINFRAME (RATED BANDWIDTH), THE 7A13 IS A 105 MHZ PLUG-IN, THE R7704/7A13 IS A 100 MHZ SYSTEM. WE WOULD CONSIDER IT APPROVABLE UNDER THE NOTE IF IT COULD BE SHOWN THAT THE END USE REQUIRED A 100 MHZ DIFFERENTIAL COMPARATOR CAPABILITY WITH THE SPECIAL FEATURES OF THE 7A13, SINCE THERE IS NO OTHER COMBINATION OF UNITS WHICH PROVIDE THIS CAPABILITY AND THEREFORE THE INDIVIDUAL ELEMENTS ARE NOT IN EXCESS OF THE REQUIREMENTS FOR THE OVERALL SYSTEM PERFORMANCE, ALTHOUGH THEY MAY BE IN EXCESS OF THE REQUIREMENTS FOR THE NOMINAL SYSTEM BANDWIDTH. KISSINGER

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